

# NASA TECH BRIEF

## Goddard Space Flight Center



NASA Tech Briefs announce new technology derived from the U.S. space program. They are issued to encourage commercial application. Tech Briefs are available on a subscription basis from the National Technical Information Service, Springfield, Virginia 22151. Requests for individual copies or questions relating to the Tech Brief program may be directed to the Technology Utilization Office, NASA, Code KT, Washington, D.C. 20546.

### Extensive Set of Macros for Structured Programing in OS/360 Assembly Language [STRCMACS]

#### The problem:

It is necessary to obtain consistent and accurate assembly language programing methods.

#### The solution:

The development of consistent assembly language structured programing techniques has been enhanced by the use of assembly macros developed for structured programing.

#### How it's done:

Two techniques are usually identified with structured programing: One is the replacing of branch instructions with standard control structures, and the other is developing a program by progressively refining descriptions of components in terms of more primitive components.

To assist in achieving these two techniques, a system of assembly language macros, STRCMACS,

has been developed. These macros provide a method of grouping statements into various control structures and conceptual units. Several other features are included to simplify design and coding.

#### Notes:

1. This set of macros was written for IBM OS/360 Assembly language.
2. Inquiries concerning this program should be directed to:

COSMIC  
112 Barrow Hall  
University of Georgia  
Athens, Georgia 30601  
Reference: GSC-11938

Source: C. Wrandle Barth  
Goddard Space Flight Center  
(GSC-11938)

Category: 09 (Mathematics and Information Sciences)